

In the Claims:

Amend the claims as follows.

8. (Amended) A purified DNA which encodes an AGE-1 polypeptide having PI 3-kinase activity [of claim 1], said polypeptide having at least 50% amino acid sequence identity to the full length polypeptide of Figure 6 (SEQ ID NO: 1) and comprising a p85 domain and a lipid kinase domain.

9. (Amended) A purified DNA comprising an AGE-1 nucleic acid sequence which is at least 30% identical to the full length nucleic acid sequence of Figure 4 (SEQ ID NO: 2), wherein said DNA encodes an AGE-1 polypeptide having PI 3-kinase activity, said polypeptide comprising a p85 domain and a lipid kinase domain.

16. (Amended) A method of identifying an AGE-1 modulatory compound that is capable of decreasing AGE-1 PI 3-kinase activity, said method comprising the steps of:

- (a) providing a cell expressing an AGE-1 polypeptide; and
- (b) contacting the cell with a candidate compound, a decrease in AGE-1 PI 3-kinase activity following contact with the candidate compound identifying a modulatory compound.

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18. (Amended) The method of claim 15 or 16, wherein said AGE-1 gene or AGE-1 polypeptide is from an animal.

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20. The method of claim 15 or 16, wherein said method involves assaying AGE-1 PI 3-kinase activity *in vitro*.

Add new claims 29 and 30.

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29. A purified DNA which encodes an AGE-1 polypeptide, said polypeptide comprising at least 50% of the following amino acids of Figure 6 (SEQ ID NO: 1): amino acids Gly-32, Leu-73, His-78, Phe-81, Glu-109, Phe-114, Leu-123, Leu-125, Phe-129, Lys-181, Ser-208, Lys-211, Arg-321, Leu-325, Leu-351, Ser-355, Met-373, Leu-381, Leu-393, Thr-432, Tyr-451, Glu-475, Pro-507, Ile-514, Gly-518, Glu-530, Val-538, Leu-582, Tyr-606, Pro-643, Phe-665, Leu-744, Leu-745, Arg-762, Leu-789, Arg-794, Ala-827, Arg-829, Trp-835, Ser-842, Asn-905, Gly-917, Asp-975, Ile-990, Asp-1006, His-1020, Lys-1104, Thr-1105, Gly-1130, Phe-1140, and Lys-1144, wherein said polypeptide comprises a p85 domain and wherein a lipid kinase domain and wherein said polypeptide has PI 3-kinase activity.

30. The purified DNA of claim 29, wherein said polypeptide comprises an identical amino acid in the equivalent position to Ala-827 of Figure 6 (SEQ ID NO: 1).